


MC Production Issues

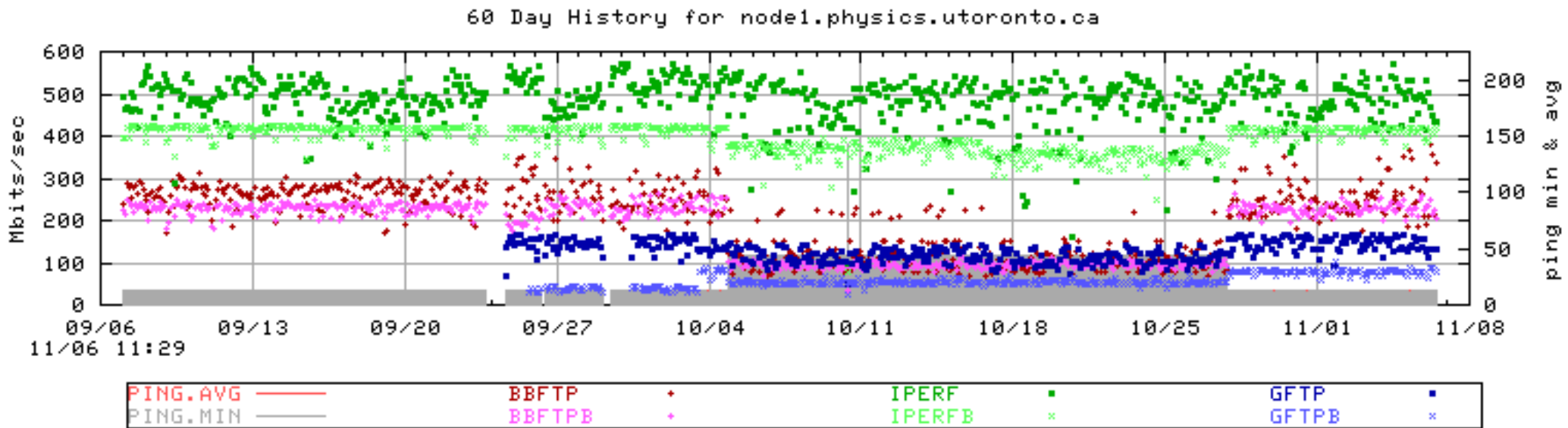
Farms News

Recent and Current MC Production Activity

Farms News

- **Simultaneity of**
 - MC production log (and other) files clogging disk resources on Toronto's BigMac cluster
 - Numerous physics-group requests for MC Production log files
 -  Quick solution is being pursued (request for FNAL disk space made)
- **Cantabria University (Javier Cuevas, Spain)**
 - Commissioning ten 2.5 GHz CPUs for CDF MC Production
 - Performing tests using standard MC production tarballs
 - Plan to test network transfer performance
- **Status of recent degradation of network performance, UofT → FNAL**
 - Now back to normal
 - See plot on next page

Recent Bandwidth Trends



Recent and Current MC Production Activity (I)

<http://hep.physics.utoronto.ca/RedaTafirout/mcprod/>

- ✓ $Z \rightarrow ee + 1 \text{ parton}$, various Q^2 values, 150k events, TOP
 - Completed, On Tape
- ✓ $W + N \text{ jets}$, MadGraph, special Steve Mrenna version, ~2.4M events, TOP
 - Completed, On Tape
- ✓ $Z \rightarrow \nu\nu + \text{jets}$, ALPGEN/Herwig, 600k events, 4.9.1, EXO
 - Completed, On Tape
- ✓ $W + N \text{ jets}$, ALPGEN/Herwig, 3.6M events, 4.9.1, QCD
 - Completed, On Tape
- ✓ QCD dijets, $p_{T\min}=80 \text{ GeV}$, Pythia, 3M events, 4.9.1, EXO/QCD
 - Completed, On Tape
- ✓ $H \rightarrow WW$, Pythia, 600k, different H masses, EXO
 - Completed, On Tape
- ✓ Dibosons + Drell-Yan, MadGraph, ~400k events, TOP
 - Completed, On Tape
- ✓ WW Inclusive, Pythia, 1M events, 4.9.1, TOP
 - Completed, On Tape
- ✗ $2 \rightarrow 2 \text{ QCD}$, Herwig / Pythia, 10M events, 4.9.1, filter for b/c flavors, TOP/QCD
 - 2M QCD events Pending; TOP not yet requested but expected
- ✗ B production, BigMac Test, prior to a large inclusive sample, BOT
 - Expected

Recent and Current MC Production Activity (II)

- ✘ $W\gamma \rightarrow e\nu\gamma$, MadGraph, 10.08k events, 4.9.1?, EXO
 - Completed
- ✘ $W\gamma \rightarrow e\nu\gamma$, Baur, 2M events, 4.9.1, EWK
 - In Production
- ✘ $W\gamma \rightarrow \mu\nu\gamma$, Baur, 2.5M events, 4.9.1, EWK
 - Pending
- ✘ QCD events, Herwig?, 500k events 40-60 GeV/c, 1M events >60 GeV/c, EXO [gluino-sbottom-Higgs HZ \rightarrow bb analysis]
 - Submission expected
- ✘ ttbar inclusive w/ tuned ZPt, Pythia, 400k events, 4.9.1, TOP
 - In Production (Alberta)
- ✘ Low-mass DY($\mu\mu$) w/ tuned ZPt, Pythia, 200k events, 4.9.1, TOP
 - In Production (Alberta)
- ✘ WZ + N parton, ALPGEN, 3×1 M events, 4.9.1, TOP
 - Pending
- ✘ Blind ttbar (6 mystery masses), Herwig, 6×100 k events, 4.9.1, TOP
 - Pending